(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 21 December 2000 (21.12.2000)

PCT

(10) International Publication Number WO 00/76969 A1

- (51) International Patent Classification⁷: C07D 209/44, A61K 31/4035, A61P 43/00, C07D 403/12, 401/12
- (21) International Application Number: PCT/US00/15073
- (22) International Filing Date: 31 May 2000 (31.05.2000)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/138,543 10 June 1999 (10.06.1999) US
- (71) Applicant (for all designated States except US): WARNER-LAMBERT COMPANY [US/US]; 201 Tabor Road, Morris Plains, NJ 07950 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): AUGELLI-SZAFRAN, Corinne, Elizabeth [US/US]; 2812 Aspen Ridge Drive, Ann Arbor, MI 48103 (US). LAI, Yingjie [CA/US]; 27H Reading Road, Edison, NJ 08817 (US). SAKKAB, Annette, Theresa [US/US]; 39790 Foxway Court, Northville, MI 48167 (US). WALKER, Lary, Craswell [US/US]; 4890 North Ridgeside Circle, Ann Arbor, MI 48105 (US).

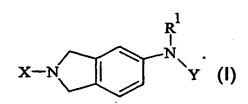
- (74) Agents: RYAN, M., Andrea; Warner-Lambert Company, 201 Tabor Road, Morris Plains, NJ 07950 et al. (US).
- (81) Designated States (national): AE, AG, AL, AU, BA, BB, BG, BR, CA, CN, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MA, MG, MK, MN, MX, MZ, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

- With international search report.
- Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD OF INHIBITING AMYLOID PROTEIN AGGREGATION AND IMAGING AMYLOID DEPOSITS USING ISOINDOLINE DERIVATIVES



(57) Abstract: The present invention provides a method of treating Alzheimer's disease using a novel compound of formula (I), wherein X is phenyl or substituted phenyl; Y is phenyl, substituted phenyl, pyridyl, or substituted pyridyl. Also provided is a method of inhibiting the aggregation of amyloid proteins using a compound of formula (I) and a method of imaging amyloid deposits using isoindoline derivatives.



